

The
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7981 - 8028 ✓



No. 35



Made Under One or More of The Following U. S.
Patents 2051477-2123149-2147369-2300544

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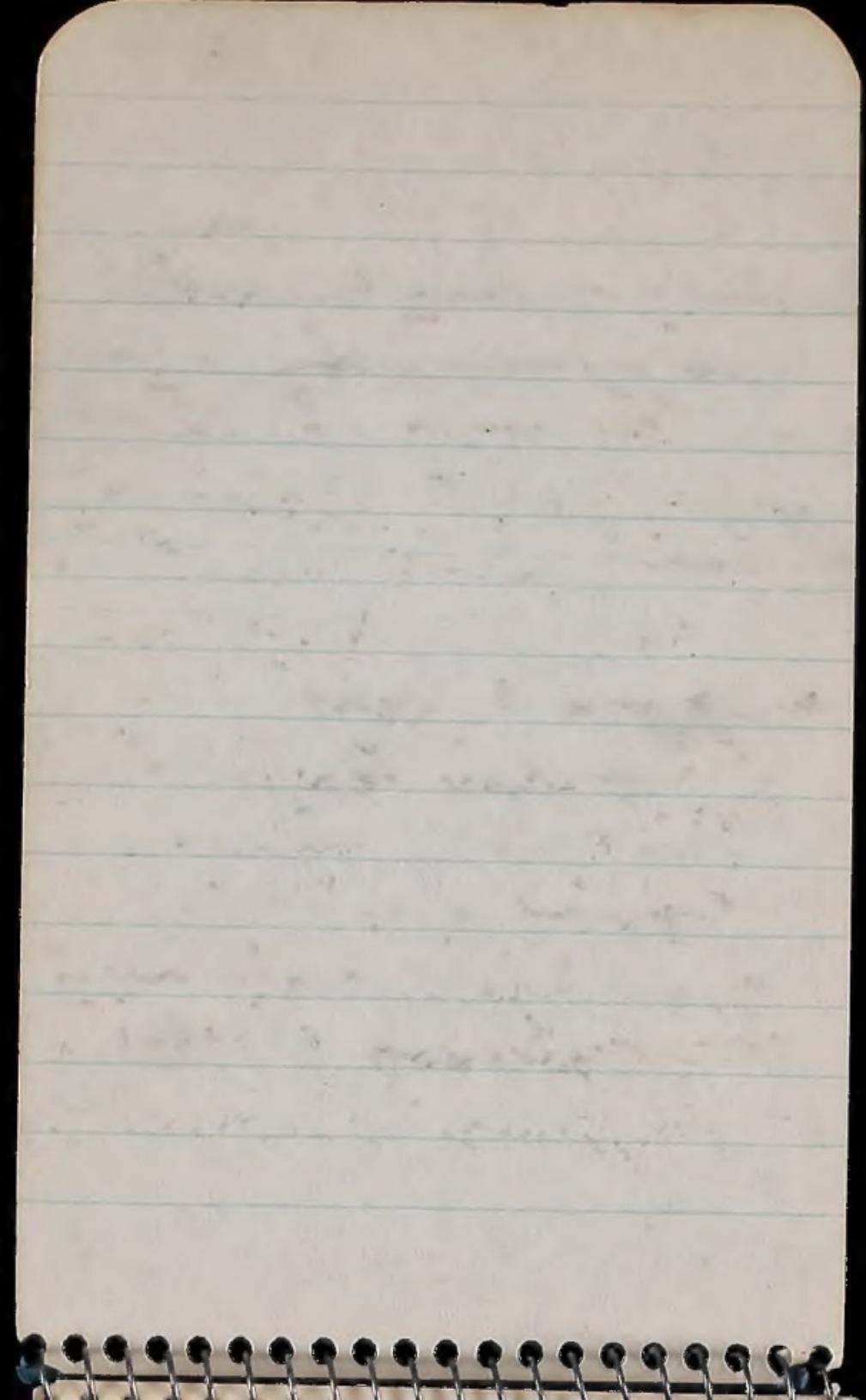
Property of

Arthur Cronquist
New York Botanical
Garden

Bronx Park
New York 58, N.Y.

Please return.

U. 561



7981 - July 25, 1955

Among jumbled granite boulders at small summit on top of Beartooth Mts. about 25 miles south-west of Red Lodge, Carbon Co., Mont., immediately adjacent to the Wyoming state line, and overlooking Wyoming Creek from the west! Top. 9 S., R. 19 E., S. 32. Elev. 10,500 feet. Plants ^{meophitic} studded with a branching caudex. Flowers blue.

Polemonium viscosum Nutt.

3102

Polemonium viscosum

20

7982 - July 25, 1955
Gentle, open granite
slopes atop Bear tooth
mts., immediately
adjacent to the Wyoming
state line, and even
looking Wyoming Creek
from southwest; about
25 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 95., R. 19E.,
S. 32 Elev. 10,400 feet.

Plants I taprooted, but
also spreading below-ground.
Flowers light purplish
Trifolium dasypodium T&G.

clover 35 *T. dasypodium*

7983. July 25, 1955

Same place as 7982.

Bracts ochroleucous or
rather light yellow to
coral or dull red-purple.

Castilleja pulchella Rydb.

dyspl. det. Marion Grubley

Castilleja

(35)

7984 July 26, 1955

In rather grad soil of dry,
grassy slope on all mor-
aines along Rock Creek, 13
miles southwest of Red
Lodge, Carbon Co., Mont.
Trips. 95, R. 19 E., S. 8.
Elev. 7200 feet. Plants
with a taproot and branching
caudex, also tending to
creep underground and become
colonial, either by elongation
of the caudical branches or by
the production of running roots
from which new clusters are
formed. Rays white to pinkish.
Erigeron caespitosus Nutt.

erigeron caespitosus 35

7985 - July 26, 1955
Step, open, granitic southeast
slopes above Rock Creek; Bear-
tooth Mts. 13 miles southwest
of Red Lodge, Carbon Co., Mont.
Twp. 9S., R. 19E., S. 8. Elev.
7500 feet. Stems solitary
or several. Bracts bright
red. Corolla largely green.

Castilleja linariifolia Benth.

Repl. dit. Marvin Crambey

②9 *Castilleja linariifolia*

1986 - July 26, 1955 ✓

open, granitic, southeast
slopes along Rock Creek,
13 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 9 S., R. 19 E.,
S. 8. Elev. 7300 feet.
Bristles light greenish.

Castilleja longiseta A. Nels.
det. Marion Ownbey

✓

Castilleja pale greenish ♂

7987 - July 26, 1955
Steep, sparsely wooded,
granitic southeast slope
along Rock Creek, 13
miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 95, R. 17 E.,
S. 8. Elev 7300 feet.
Widely and loosely ascending
shrub about 1 m. high.
Cones blue-glaucous

Juniperus horizontalis subsp.
pressing toward *J. virginiana*
var. scopulorum. Neither
pure *J. horizontalis*, nor, to
the best of my recollection, pure
J. v. scopulorum seen nearby.

1988 July 27, 1955
Open, granitic, gentle
slopes above the Beartooth
Mts. immediately adjacent
to the W. Wyoming state
line, about 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp. 9S.,
R. 19E., S. 32. elev. 10,400 feet.
Flowers ochroleucous.

Oxytropis campestris (L.) DC.
var. *cusickii* (Greenm.)
Barneby

✓

Oxytropis. larger (35)

7989 - July 27, 1955

Same place as 7988.
Flowers all more or less withered, but evidently purple.

Oxytropis lessingii (Rydb.) ✓
var. *agophylla* (Rydb.)
Blank.
Barneby

Oxytropis laevipes Nutt.
var. *atropurpurea* (Rydb.)
Barneby
det. R. C. Barneby

outward

(31)

7990 - July 27, 1855
Same place as 7988.
Phyllaries with very
dark margins.

Artemisia scopulorum Gray

Artemisia - black sh. (35)

7991 - July 27, 1955
Same place as 7988. Grows
commonly with a more or
less branched caudex, the
branches bearing fibrous roots
and only weakly confluent
into a short, poorly
defined taproot.

Artemisia campestris L.
ssp. *borealis* (Pall.) Hall & Penn.
var. *borealis*

Artemisia borealis. (35)

7992 - July 27, 1955 ✓
Same place as 7988.
Root slightly to strongly
thickened. Leaves withering
as the fruits mature

Lomatium nudicaule C. & R.

Lomatium (5)

7993 - July 27, 1955

In sheltered pockets of soil among jumbled granitic boulders on small point atop the Beartooth Mts., immedi-
ately adjacent to the Wyoming state line,
25 miles southwest of
Foothills, Carbon
Co., Mont. Trip 95, R. 19E.
S. 32, elev. 10,500 feet.
Plants with a taproot and
branching caudex. Flowers
blue or sometimes pink,
the limb rather widely flst.
Mertensia alpina (Torn.) G. Don

799 - July 28, 1955

In pockets of soil
among jumbled granite boul-
ders on small point atop
Beartooth Mts. immed-
iately adjacent to the
Wyoming state line, 25
miles southwest of Red
Lodge, Carbon Co., Mont.
Trip. 95, R. 19E, S. 32.
Elev. 10,500 feet. Plants
in large clusters from
heavy taproot and branching
rhizome. Flowers blue.

Mertensia ciliata (Torr.) G. Don

Mertensia ciliata 33

1995 - July 18, 1955 ✓
Same place as 1994.
With the parents, but
less abundant, and inter-
mediate between them
in habit, size and
venation of the leaves,
size and shape of the
corolla, and insertion
of the stamens.

Mertensia ciliata (Torr.) G. Don

X

M. alpina (Torr.) G. Don

Mertensia

7-96 - July 28, 1955
Gentle, open, granitic
slopes atop the Bear tooth
Mts., immediately ad-
jacent to the Wyoming
state line, 25 miles
southeast of Red Lodge,
Carbon Co., Mont. Top.
95, R. 19E, S. 32. elev 10,500
feet. Stems solitary or
paired, each with its own
rosette of basal leaves. Disk
orange; rays golden-orange.

Senecio fuscatus Hayek.

(*Senecio fuscatus*)

1997 July 28, 1995
Low, spreading shrub 1-3m.
tall on gentle, open, granitic
slopes atop the Bear tooth
Mts., immediately ad-
jacent to the W. Wyoming
state line, Carbon Co.,
Wyo. Twp. 9S, R 19E.,
S. 32. Elev 10,500 feet.
Leaves distinctly pale
beneath, greener but still
thinly hairy above, or
in occasional plants the
upper surface wholly
hairless and glabrous.
Salix pseudopapposum v. *Seem.*

1998 - July 28, 1955
Gentle, open, graphitic
slopes atop the Bear-
Rock Mts., immediately
adjacent to the Wyoming
state line, 25 miles
from the west of Red Lodge,
Carbon Co., Mont. Twp.
95. R. 19E., S. 32. Elev.
10,400 feet. Plants
dioecious.

Carex pseudosciapoidea Rydb.

Carex 35

303

7999 - July 29, 1955
Same place as 7998. ~~Elv.~~

10,500 feet. Stems mostly
solitary, sometimes 2 or
3 together. Rays blue. Lar-
eader to more often nearly
white.

Erigeron simplex Greene

Erigeron simplex (33)

3300

29, 1957

Open, gently granitic
slopes at top the Bear-
tooth Mts., immediately
adjacent to the Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
9 S., R. 19 E., S. 32. Elv.
10,500 feet. Flowers
blue-lavender

Aster alpinus (T. & G.) Kray
var. *haydenii* (Porter) Cronq.

✓

Aster alpinus

(19)

8001 - July 29, 1955

Same place as 8000.

Pistillate and staminate
plants. L. terminally
solitary.

Antennaria lanata (Huds.)
Greene

7 mm. long. (2)

8000 - July 29, 1955
Same place as 8000. ✓

Besseyia wyomingensis
(a. Nels.) Rydb.

Classifying (10)

8003 - July 29, 1955
Same place as 8002.
Sepals light green, Petals
none. Stamens 10.

Arenaria rossii R. Br.
subsp. *columbiana* (Roxb)
^{Magnifica}
var. *apetala* ^{Magnifica}
det. Bassett Magnifica

ovules few (8)

8004 - July 22, 1957
Same as 8000, Plants
with a minor less
well developed tapetum.
Flowers white.

Arenaria congesta Nutt. ex T. & G.
var. nettallii Cogn.

det. Bassett Maguire

Arenaria (3)

8005. July 29, 1955
Same place as 8000, ✓
Elev. 10,400. Petals
white, evidently
notched.

Christium beringianum
Cham. & Schlecht. 1882

det. Bassett May 1955

Christium (20)

8006 July 29, 1957
Gentle, open slopes,
and, in the shelter of
granitic boulders, atop
the Beartooth Mts., im-
mediately adjacent to
the Wyoming state line,
25 miles southwest
of Red Lodge, Carbon
Co., Mont., Twp. 95,
R. 19 E., S. 32. Elev. 10,300
feet.

Droba incana (L.) Gray
Confirmed by C. L. Hitchcock, 1955

Droba (12)

8007 July 29, 1955
Same place as 8000/
Flowers on some plants
pink, on others white.

Lewisia rediviva (Gray) R. Br.

Lewisia

(18)

3647

8005 J. C. 30

open, moraine slopes
along Wyoming Creek,
just above Fish Creek,
13 miles southwest of
Red Lodge, Carbon Co.,
Mont. Twp. 95, R. 19E.,
S. 8. Elev. 7300 feet.

Stems clustered and jointed
and branched caudex. Flowers
purple, maturing blue.

!
Astragalus striatus Nutt.

astragalus striatus ?

5009 - July 30, 1955

Open, marine slope and
flats along Wyoming Creek,
just above Rock Creek, 13
miles southwest of
Red Lodge, Carbon Co.

Alt. Twp. 95, R. 19E.,
S. 8. Elev. 7200 feet. ~~Firs~~

Plants with a taproot
and caudex. F leaves
bright purple.

Axytropis besseyi (Rydb.)

Blank

var. *besseyi*

Axytropis

(6)

8010 - July 31, 1955
Open, granitic gentle
slopes atop the Beartooth
Mts., immediately ad-
jacent to the W. Wyoming
state line, 25 miles
southwest of Red Lodge,
Carbon Co., Mont. Twp.
95, R. 19E., s. 32. Elev.
10,500 feet. Plants
extensively creeping
underground. Flowers
pink.

Trifolium parviflorum Gray

!

Trifolium ②

8011 - July 31, 1955.

Open, granite, gentle
slopes at top the Bear
ooth mts., 25 miles south-
west of Red Lodge,
Carbon Co., Mont. Twp.
9 S., R. 19 E., S. 32. Elev.
10,500 feet. Plants
tufted, without
rhizomes.

Deschampsia caespitosa
(L.) Beauvo.

15. Lvs. like grass.

8012 - July 31, 1955
Same place as 8010, ✓
Elev. 10,400 feet.
Roots tufted, without
rhizomes

Agrostis borealis Hartm.,
vel aff.

✓

(1) or *Agrostis*
Small Deschampsia

8013 - July 31. 1955
Same place as 8010. ✓
Elev 110, 400 feet.
Plants tufted, without
rhizomes. Herbage
blue-glaucous

Festuca ovina L.

✓

⑧ *Festuca ovina* .

8014 - July 31, 1955.
Same place as 8010. Elev.
10,400 feet. Plants
tufted, without
rhizomes.

Festuca ovina L.

var. *brachyphylla* (Schult.)
Piper

Seemingly distinct from
8013, the more characteris-
tic phase of *F. ovina*, at this
point.

✓

divaricata *Festuca* (?)

8015 - July 31, 1955
Same place as 8010.
Elev 10,400 feet Plants
tufted, without rhizomes.
Herbage green or less often
blue-glaucous.

Poa rupicola Nash
det. D. S. Koch

Poa - ciliata James (30)

SD 16 - July 31, 1935;
Same place as SD 15.
Elev. 10,000 feet.
Plants tufted, without
rhizomes. ~~Herbaceous~~
Herbage blue-glaucous.

Poa vicunia Scribn.
Williams
det. D. D. Keck

✓

Poa basal leaves Ⓛ

8017 - July 31, 1955 ✓
Same place as 8010.
Plants scarce, tufted,
without rhizomes.

Poa alpina L. ✓
det. D. D. Keck

① Poa - basal leaves

8018 - July 31, 1938
Same place as 8010.
Elev. 10,400 feet.
Plants tufted without
rhizomes.

Agropyron scirnari Vasey



Agropyron (20)

8019 - July 31, 1955
Open, granite, rocky,
gravelly flats atop
the Beartooth mts. at
first highway summit
southwest of Red Lodge,
in Park Co., Wyoming.
Twp. 58 N, R. 10 W. S 28.
Elev. 10,900 feet. Plants
forming low mats.

Saxifragula Rydb.

Salic (10)

SD 20 - July 31. 1955

Open, rocky, granite
slopes atop Beartooth
mts. just northeast of the
second highway summit
southwest of Red Lodge,
in Park Co., Wyoming.

Twp. 58 N., R. 104 W., S. 29,
Elev. 10,700 feet. Plants
at least sometimes with
an eventual taproot,
always rhizomatously
much branched below the
ground. Ray white, flushed
with lavender-pink outside.

Erigeron flabellifolius Rydb.

(9) *Erigeron flabellifolius*
white var.

8021 - July 31, 1955

Same place as 8020.
Petals yellow, finely
cross-rugose with orange
below the middle.

Saxifrage Chrysanthia Gray

Flowers red (7)

8022 - July 31, 1955
Same place as 8020.
Petals yellow.

Salvadora flagellaris
Willd.

①
rosette yellow seedlings

8923 - July 31, 1955 ✓
Same places as 8020 - ✓
Petals white.

Li. 1.17a *Camptosia* L.

at saline ⑤

8024 July 31, 1955
Same place as 8020

Drosera paysonii Macbr.
var. *Treleasii* (Schulz) Hitchc.,
appx. var. *paysonii*

Can. Journ. Botany, 1955
C. L. Hitchcock, 1955

woolly drosera ①

8025 - July 31, 1955
Same place as 8020.
Flowers yellow

8025 - *Draba crassifolia* R. Grah.

8025 a *Draba lonchocarpa*
var. *exigua* Schatz

8025 b : *Draba fildmansi* Wulf

det. Ch. L. Hitchc. 1955

Flowers
green Draba (3)

8026 - July 31, 1955
Same place as 80...
Flowers yellow

Draba incerta Payss.

Confirmed by C.L. Hitchcock, 1955

gray draba

8027 - July 31, 1955 ✓
Same place as 8200 ✓

✓
Draba lanceocarpa Rydb.
var. *lanceocarpa*

Confirmed by C. L. Hitchcock 1951

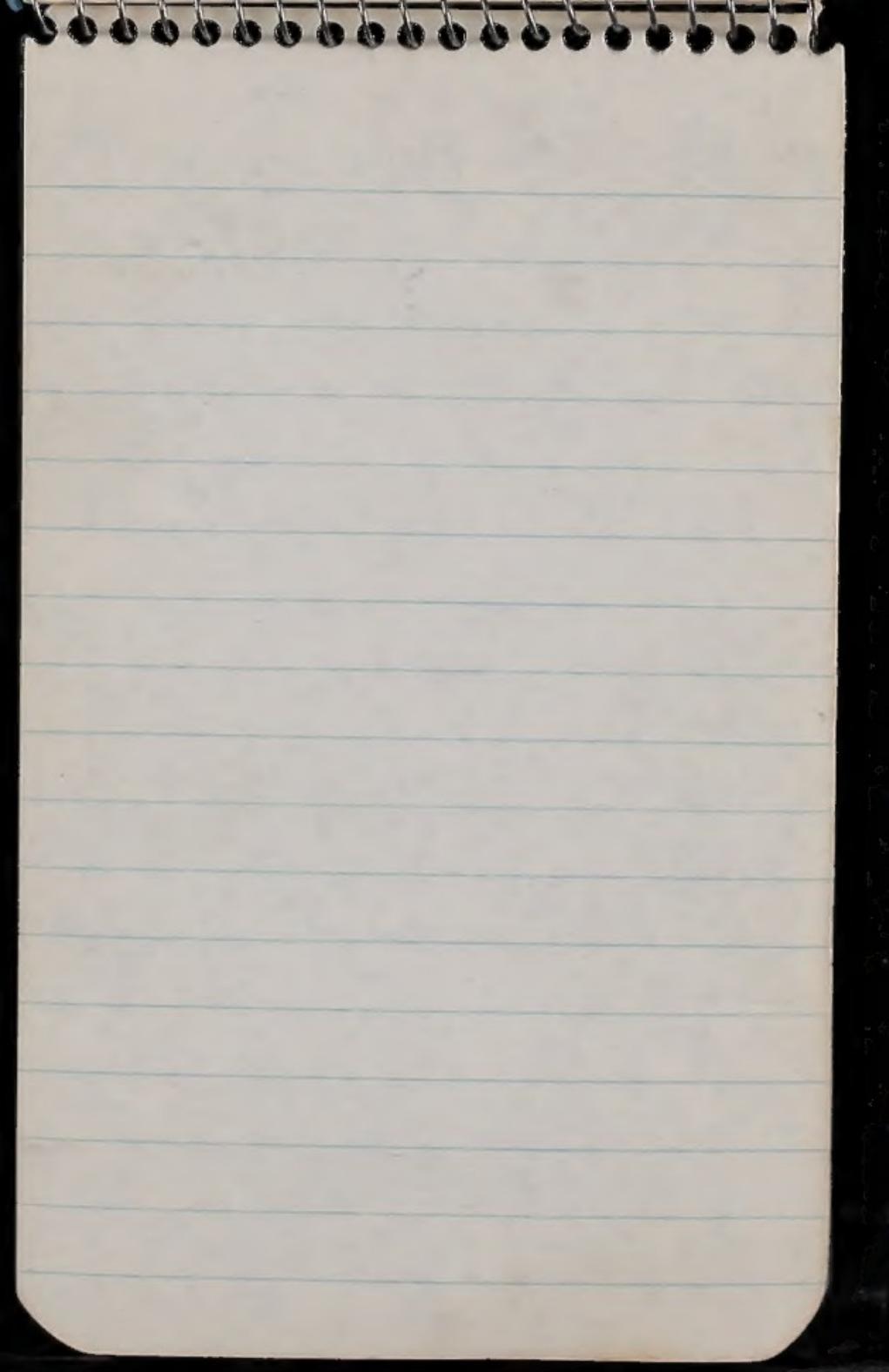
lance and Draba ①

8023 - July 31, 1941
Same place as 8020.
Flowers white.

Draba ionocharpa
var. *exigua* Schulz

Ref. C. L. Hitchc. 1955

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CLS

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SL

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(38)
elie

81

